Geon™ Vinyl Fittings M1210

Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active [1]		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Impact Resistance	• Medium Flow	
Uses	• Fittings		
Agency Ratings	• NSF 14	• NSF 61	• NSF Type II [2]
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [3]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.38	1.38	ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3 in/in	0.20 to 0.50 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [4]	360000 psi	2480 MPa	ASTM D638
Tensile Strength [4] (Yield)	6200 psi	42.7 MPa	ASTM D638
Flexural Modulus	403000 psi	2780 MPa	ASTM D790
Flexural Strength	10800 psi	74.5 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
32°F (0°C), 0.125 in (3.18 mm), Injection Molded	2.0 ft·lb/in	110 J/m	
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	20 ft·lb/in	1100 J/m	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Rockwell Hardness (R-Scale)	107	107	ASTM D785
Durometer Hardness (Shore D)	81	81	ASTM D2240
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	160 °F	71.1 °C	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.0591 in (1.50 mm), WT)	V-0	V-0	UL 94

Additional Information

NSF - Cell Classification D1784 (NSF Listed) -- 14333 / NSF - Cell Classification D1784 (Capable) -- 14334

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	390 to 410 °F	199 to 210 °C

Notes

[1] RoHS compliant.

[2] NSF Agency ratings are based on tested and certified colors. Please contact PolyOne technical for further information.

[3] Typical values are not to be construed as specifications.

[4] Type I, 2.0 in/min (51 mm/min)

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